

UWA SHRIMP DATA LOG

Date: 04/05/03 UWA Mount No. 03-13 / C77 / 03-19 Whose sample? Nareen Operator(s) IF + NV + LG + MB + BS

Indicate any change to the following: ^{202 203} 196 204 bkg 206 207 208 ²³² 238 ²⁵⁴ 248 ²⁶⁴ 254 270

Precambrian Count time (secs): 2 2 10 10 10/20* 30/10* 10 5 5 2
 Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

Steel: Wein volts / nA = for O²⁻; = for O₂²⁻; = for NO⁻

dead-time = ²⁴ nanosecs expected resolution = >4200 actual resolution = ⁵⁷⁷⁰

aperture = ³⁰⁺ microns retardation lens = ^{HT+5} volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: ²⁰³ 196-204 = ^{1.005} 204-bkg = ^{0.057} 204-206 = ^{1.999} ~ 1.997
^{1.004} 206-207 = ^{1.001} 206-208 = ^{centred}

Primary-epoxy = ^{~0.5} nA Primary-CZ3 = ^{Fr 0.73} nA PESABM-CZ3 = ^{Fr 17} pA

Raster time (mins): ² Raster aperture (microns): ⁴⁰ No. of scans: ⁷

Comments: ^{5/03}

Fr 11 — Fr 716
 Qma 32 — Qma 716 } ^{Ca} 0.056
 PD 6 PD 716 } 0.07

5 stds on SPS-2 (see attached sheets)
 when SPS-3 (box 03-19)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO ²⁰³ 196 Kcps	206 Kcps	UO ₂ ²⁷⁰ ppm Kcps	204Pb ²⁶⁴ ppb cps	206 ²⁶⁴ % Kcps	Age ¹¹⁰ (Ma) 206/238 207/206	Offsets OK?		
	Fr-1-1	11:12	1.25	2.9	1.5	12.1	1.3	246	0.122	0.060	✓
	PD 95-1-1	11:41	1.12	3.7	1.30	29.5	2.1	440	0.465	0.105	✓
	QMa-1	12:05	1.31	3.5	1.3	11.0	0.3	116	0.119	0.058	✓
	H4-1	12:39	1.30	3.2	0.7	1.0	0.6	3.2	0.779	0.191	✓
	H4-1 ¹⁶	13:03	1.69	3.8	0.5	0.8	0.6	3.8	0.648	0.186	✓
	Fr 1-2	13:36	1.24	3.3	1.7	13.7	1.4	281	0.121	0.058	✓
	PD 95-1-2	14:07	1.10	3.2	69.6	155	2.3	537	0.448	0.104	✓
	H6-1	14:40	0.86	2.7	0.15	0.2	0.2	13.4	0.822	0.193	✓

need to change label →

ARC dropped out on last scan. →

5 scans of rate kept.

Mount/sample No: 03-13

Date: 1/5/03

Page No: 2

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO ₂ <small>230/234</small>	²⁰³ U Kcps	²⁰⁶ Pb Kcps	²³⁰ UO ₂ ppm Kcps	²⁰⁴ Pb ppb cps	²⁶⁴ ThO ₂ ²⁰⁶ Pb %	Age ± 1σ (Ma) <small>206/238-270</small>	207/206	Offsets OK?
	03-13 H6-1b										
	Fr 1-3	15.44	1.23	3.56	1.7	14.2	1.4	290	0.121	0.059	✓
	Scan 7 PD981-3	16.11 16.2	7.07	3.9	82.1	182	2.6	657	0.125	0.104	✓
	D1-1	16.47	1.33	3.7	0.07	0.09	0.2	19.7	0.739	0.205	✓
	D1-1b	17.14	1.15	3.6	0.16	0.19	0.3	37.4	0.816	0.214	✓
	Fr 1-4	17.43	1.16	3.7	1.8	15.0	0.9	315	0.120	0.059	✓
	Scan 2 PD951-4	18.09	1.04	3.9	88.4	200	4.1	696	0.441	0.104	✓
	L1-1	19.10	1.17	4.4	0.04	0.06	0.5	1.2	0.742	0.301	✓
	L1-1b	19.37	1.42	4.7	0.05	0.06	0.4	0.9	0.805	0.223	✓
	Fr 1-5	20.04	1.18	3.9	1.9	16.1	1.7	329	0.12	0.059	✓
	Qmal-2	20.29	1.28	4.5	1.3	11.3	1.1	134	0.12	0.059	✓
	L2-1	21.23	1.08	4.1	0.05	0.05	0.4	0.6	0.975	0.251	✓
	L2-1b	21.48	0.98	4.1	0.08	0.04	0.3	0.5	0.788	0.257	✓
	PD957-5	22.14	1.08	4.2	98.9	220	4.3	732	0.449	0.104	✓
	Qmal-3	22.41	1.35	4.4	1.7	13.5	0.5	150	0.127	0.06	✓
	L3-1	23.19	1.33	4.6	0.01	0.05	0.6	0.9	0.225	0.259	✓
	L3-1b	23.44	1.18	5.7	0.05	0.04	0.2	1.0	1.172	0.246	✓ see across
	Fr 1-6	00.11	1.18	4.5	2.2	17.8	1.5	369	0.123	0.06	✓
	PD951-6	00.36	1.11	4.2	142	315 315	3.4	607	0.449	0.104	✓
	L4-1	01.05	1.05	4.4	0.03	0.02	1.4 0.6	1.4	1.196	0.46	✓
	L4-1b	01.32	1.00	5.6	0.03	0.03	1.0	0.2	1.224	0.43	✓ see across
	Fr 1-7	01.58	1.20	4.6	2.3	18.1	2.0	373	0.125	0.06	✓
	Qmal-4	02.26	1.25	4.6	1.7	14.1	0.5	137	0.118	0.06	✓
	L5-1	03.19	1.25	3.7	0.03	0.03	0.3	0.9	1.015	0.43	✓
	L5-1b	03.44	0.69	5.9	0.04	0.03	0.6	1.4	1.352	0.35	✓ see across

Condensing problem see Scan 2
 204-bg 0.042 (this is OK)
 204/207 = 1.004

204-bg 0.049

206/204 1.994

204-bg 0.04997



Rejection over-ride	Sample/Std ID	Time - printout	UO/U 270/254	203 196 Kcps	206 Kcps	270 U ₂ ppm Kcps	204pb ppb cps	264ThO ₂ f206 %	Age ± 1σ (Ma) 206/238 270	207/206	Offsets OK?
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Low values -

Arc dropped out -

Reset peaks & magnet.

204/bg = 0.057

CaPO₂ ~ 5000 to 6000

* Should be Lb-1b

CaP₂ ~ 4000

(Near) Fixed Bkgd-204

1.117

Mistake with labelling - called 13L3-2:FR1-10

relabel to Lc 1d

ARC dropped out

1.6-1 (check)

extremely noisy

Scan 5 melatonin & extremely noisy

C-93

Scrub

1.11

	PP951-7	04:10	0.78	1.5	56.9	149	1.1	298	0.382	0.104	✓
	Qmal-5	05:19	1.19	4.7	1.3	8.7	0.5	105	0.150	0.05	✓
	PP951-8	05:46	1.15	3.8	114	247	2.3	551	0.04	0.104	✓
	FR1-8	07:32	1.30	4.7	2.3	18.1	1.9	363	0.127	0.06	?
	Qmal-6	07:57	1.30	4.8	1.6	12.3	0.4	145	0.126	0.06	✓
	L1-6	08:28	1.25	2.8	0.04	0.05	0.9	0.10	0.895	0.32	✓
	Lb-1b	08:55	1.01	1.9	0.03	0.04	0.6	1.0	0.756	0.35	✓
	FR1-9	09:21	1.16	4.7	2.3	18.7	0.5	381	0.123	0.06	✓
	PP951-9	09:46	1.13	4.3	132	290	0.1	687	0.45	0.104	✓
	FR1-10	11:19	1.19	4.8	2.3	18.7	0.6	385	0.122	0.06	✓
	L3-21c	12:09	1.05	4.8	0.05	0.04	0.4	1.2	1.249	0.375	✓
	L3-2b	12:36	1.22	4.4	0.05	0.04	0.4	0.6	1.102	0.390	✓
ARC dropped out											
	Fr. 1-11	14:49	1.19	5.9	2.5	20.7	1.3	417	0.121	0.06	✓
	C77h.14	15:19	1.47	1.9	5.5	3.8	195	104	1.451	0.58	✓
	C77j.14	15:58	1.24	4.1	8.3	9.3	48	186	0.893	0.30	✓
	C77f.14	16:48	1.12	4.6	2.0	2.4	16	158	0.826	0.257	✓
	C77R.14b	17:0	0.90	5.6	2.4	3.0	62	132	0.783	0.430	✓
	Fr. 1-12	17:37	1.18	5.4	2.5	20.7	1.8	427	0.123	0.061	✓
	PD95.110	18:01	1.05	5.0	15.9	34.0	3.1	804	0.47	0.104	✓
	Fr. 1-13	18:25	1.19	5.5	2.7	20.8	1.0	424	0.129	0.056	✓
	PD95.116	18:51	0.98	4.5	13.5	30.3	3.6	751	0.445	0.104	✓

SAMPLE CHANGE

SPS 3 standard mount

C93, 03-19 unknowns.

Continues from 03-13

Mount/sample No: C93/03-19 Date: 1-4/May/03 Page No: 4

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO 270/254	205 198 Kcps	206 Kcps	270 Uo ppm Kcps	204Pb ppm cps	264TlO ₂ 1206 % Kcps	Age ± 1σ (Ma) 206/208 270	207/206	Offsets OK?
	FrSP33.11	19:32	1.38	4.6	2.7	20.8	2	404	0.128	0.060	✓
	pdSP33.11	19:58	1.20 1.33	4.7	2.52	513	3.4	601	0.491	0.104	✓
	FrSP33.12	21:07	1.38	4.8	2.52	14.6 14.6	3.5	777	0.131	0.059	✓
	0319A.3-1	22:58	0.51	2.5	0.17	1.2	1.5	44	0.136	0.267	✓
	0319A.1-2	23:20	1.10	4.1	0.14	0.2	0.4	36	0.760	0.280	✓
	FrSP33.13	23:45	1.41	3.8	1.96	14	1.4	268	0.137	0.060	✓
	0319A.2-1	00:32	0.67	2.8	0.66	8.3	4.9	56	0.079	0.258	✓
	0319A.2-1b	00:57	0.71	2.7	0.28	1.4	4.9	26	0.205	0.391	✓
	Qma.201	01:24	1.02	2.7	0.92	7.1	0.4	76	0.131	0.067	✓
	0319A.2-2	01:55	1.06	4.1	0.14	0.05	1.3	56	0.297	0.316	✓
	0319A.2-2b	02:05	1.18	4.5	0.14	0.41	0.7	50	0.345	0.309	✓
	Fr-1-3	02:39	1.44	2.9	1.6	12	1.4	225	0.132	0.062	✓
	0319A.4-1	03:31	0.70	0.6	0.6	13	4.9	298	0.048	0.227	✓
	0319A.5-1	03:58	0.54	0.2	0.7	7.1	5.1	712	0.094	0.171	✓
	pd-1-2	04:44	1.33	1.1	67	128	0.5	148	0.527	0.104	✓
	03C-3-1a	05:16	1.23	5.3	0.7	1.2	0.3	34	0.628	0.153	✓
	C-3-1b	05:36	1.28	6.5	0.5	0.9	1.5	28	0.574	0.148	✓
	C-3-1c	05:58	1.18	5.1	0.4	0.7	0.3	23	0.604	0.157	✓
	Fr-1-4	06:23	1.25	5.2	2.8	22	2.3	44	0.126	0.059	✓
	C-1-2a	06:51	1.26	5.1	1.3	2.5	0.3	37	0.714	0.168	✓
	C-1-2b	07:12	1.24	6.3	1.2	2.0	0.2	36	0.612	0.171	✓
	C-1-2c	07:33	1.15	5.1	1.2	1.9	-	20	0.620	0.166	✓
	Qma.202	07:58	1.28	5.6	2.2	18	0.3	170	0.125	0.056	✓
	Fr-2-1	08:22	1.40	3.8	2.0	15	1.8	279	0.135	0.060	✓
	C-1-3a	08:48	1.26	5.3	0.9	1.4	0.7	41	0.647	0.168	✓

= 3-16 →

(Renamed 1-5)

Handwritten mark

Strongly curved

actually grain No. 1 (rename)

Last row

Rejection over-ride	Sample/Std ID	Time - printout	UO/UO ₂₇₀ ²⁰³ Kcps	UO ₁₉₆ Kcps	206 Kcps	UO ₂₇₀ ppm	204Pb ppb	f ₂₀₆ %	Age ± 1σ (Ma) 206/238 270	207/206	Offsets OK?
	C.1-3b	09:09	1.14	5.7	0.7	1.3	0.2	31	0.521	0.170	-
	C.1-3c	09:29	1.15	4.9	0.7	1.1	0.3	21	0.628	0.166	✓
	pd 1-3	09:57	1.21	5.3	2.54	5.09	2	574	0.498	0.104	✓
	C.1-2a	10:24	1.31	5.3	3.0	4.3	0.8	34	0.689	0.167	✓
	b	10:44	1.27	6.3	1.8	2.3	0.3	23		0.158	✓
	c	11:05	1.20	4.4	0.9	1.3	0.2	16		0.164	✓
	Ar.1-5	11:39	1.21	5.5	2.8	2.3	2.7	460	0.125	0.059	✓
	C.3-1a	12:09	1.16	1.5	0.2	0.4	0.5	15	0.658	0.221	✓
	C.3-1b	12:29	0.9	1.2	0.2	0.3	1.2	14	0.704	0.218	✓
	C.3-2	12:53	1.36	3.8	0.5	0.7	0.9	0.8	0.718	0.200	✓
	C.3-2b	13:14	1.13	4.6	0.4	0.6	0.1	0.8		0.179	✓
	Ar.2-1	13:39	1.06	5.2	1.57	3.38	4.3	838	0.466	0.103	✓
	C.4-4	14:04	1.11	3.6	0.4	0.7	2.4	9.4	0.689	0.2312	✓
	C.1-4b	14:30	1.23	5.3	0.9	1.8	1.0	48	0.509	0.1878	✓
	C.1-4b	14:52	1.10	6.2	0.7	1.3	0.7	44	0.566	0.149	✓
	C.1-5	15:16	1.23	4.8	0.5	1.0	0.9	35	0.522	0.156	✓
	C.1-5b	15:36	1.2	5.8	0.5	1.2	0.8	34		0.146	✓
	Ar.1-6	15:59	1.2	5.4	2.8	2.2	0.6	448	0.088	0.126	✓
	b.1-1	16:47	0.7	2.8	0.2	0.2	1.6	27	0.868	0.212	✓
	b.1-1b	16:27	0.5	1.13	0.4	0.5	1.8	49	0.793	0.204	✓
	Ar.2-1	18:11	1.11	4.6	2.3	1.9	1.4	400	0.120	0.060	✓
	f.1-1	19:05	1.24	5.3	1.39	1.52	1.81	106	0.917	0.330	✓
	o.1-1	19:31	1.22	5.1	6.3	2.2	3.50	121	2.85	0.79	✓
	C.1-6	20:14	1.25	5.2	1.2	1.8	0.9	15.1	0.688	0.168	✓
	C.1-6b	20:34	1.27	6.2	1.1	0.0	-	12.1		0.168	✓
	C.1-7	21:00	1.22	4.6	1.8	2.7	0.8	20	0.673	0.1730	✓
	C.1-7b	21:20	1.23	1.8	1.8	2.6	0.2	14.4	0.712	0.1683	✓

1-6 →

one spot only
(204)

small man →

huge
conv
extreme
def. py